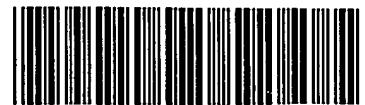


RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/543,033A
Source: IFW0
Date Processed by STIC: 11/13/06

ENTERED



IFWO

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/543,033A

DATE: 11/13/2006

TIME: 11:01:47

Input Set : F:\Substitute seq listing 10589-012-999.txt
 Output Set: N:\CRF4\11132006\J543033A.raw

3 <110> APPLICANT: Cao, Liangxian
 4 Trifillis, Panayiota
 6 <120> TITLE OF INVENTION: METHODS FOR IDENTIFYING COMPOUNDS THAT MODULATE UNTRANSLATED
 7 REGION-DEPENDENT GENE EXPRESSION AND METHODS OF USING SAME
 9 <130> FILE REFERENCE: 10589-012-999
 11 <140> CURRENT APPLICATION NUMBER: US 10/543,033A
 C--> 12 <141> CURRENT FILING DATE: 2005-07-21
 14 <150> PRIOR APPLICATION NUMBER: PCT/US2004/001643
 15 <151> PRIOR FILING DATE: 2004-01-21
 17 <150> PRIOR APPLICATION NUMBER: 60/441,637
 18 <151> PRIOR FILING DATE: 2003-01-21
 20 <160> NUMBER OF SEQ ID NOS: 90
 22 <170> SOFTWARE: PatentIn version 3.2
 24 <210> SEQ ID NO: 1
 25 <211> LENGTH: 14
 26 <212> TYPE: DNA
 27 <213> ORGANISM: Artificial Sequence
 29 <220> FEATURE:
 30 <223> OTHER INFORMATION: Description of Artificial Sequence: consensus G-quartet
 element from
 31 synthetic sequences
 34 <220> FEATURE:
 35 <221> NAME/KEY: misc_feature
 36 <222> LOCATION: -3, -7, -8, -11
 37 <223> OTHER INFORMATION: n = a, t, c, or g
 39 <220> FEATURE:
 40 <221> NAME/KEY: misc_feature
 41 <222> LOCATION: (7)..(8)
 42 <223> OTHER INFORMATION: This represents one form of the sequence as described, other
 forms
 43 described may have up to five nucleotides in this variable region
 45 <400> SEQUENCE: 1
 W--> 46 ggntggnnngg ntgg 14
 49 <210> SEQ ID NO: 2
 50 <211> LENGTH: 14
 51 <212> TYPE: DNA
 52 <213> ORGANISM: Artificial Sequence
 54 <220> FEATURE:
 55 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic G-quartet
 oligonucleotide
 57 <220> FEATURE:
 58 <221> NAME/KEY: misc_feature
 59 <222> LOCATION: 3, 4, 7, 8, 11, 12
 60 <223> OTHER INFORMATION: n = a, t, g or c

See P. 6

62 <220> FEATURE:
63 <221> NAME/KEY: misc_feature

RAW SEQUENCE LISTING DATE: 11/13/2006
PATENT APPLICATION: US/10/543,033A **TIME:** 11:01:47

Input Set : F:\Substitute seq listing 10589-012-999.txt
Output Set: N:\CRF4\11132006\J543033A.raw

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/543,033A

DATE: 11/13/2006

TIME: 11:01:47

Input Set : F:\Substitute seq listing 10589-012-999.txt
 Output Set: N:\CRF4\11132006\J543033A.raw

144 taaagttgc tt	792
147 <210> SEQ ID NO: 7	
148 <211> LENGTH: 21	
149 <212> TYPE: RNA	
150 <213> ORGANISM: Homo sapiens	
152 <220> FEATURE:	
153 <223> OTHER INFORMATION: Group I AU-Rich element (ARE) cluster of 3' untranslated region	
155 <400> SEQUENCE: 7	
156 auuuauuuau uuauuuauuu a	21
159 <210> SEQ ID NO: 8	
160 <211> LENGTH: 40	
161 <212> TYPE: DNA	
162 <213> ORGANISM: Homo sapiens	
164 <400> SEQUENCE: 8	
165 kctggaggat gtggctgcag agcctgctgc tcttgggcac	40
168 <210> SEQ ID NO: 9	
169 <211> LENGTH: 289	
170 <212> TYPE: DNA	
171 <213> ORGANISM: Homo sapiens	
173 <400> SEQUENCE: 9	
174 gccggggagc tgctctctca tgaaacaaga gctagaaaact caggatggtc atcttggagg	60
176 gaccaagggg tgggcacag ccatggtggg agtggcctgg acctgcctg gccacactg	120
178 accctgatac aggcatggca gaagaatggg aatattttat actgacagaa atcagtaata	180
180 ttatatatatt tatattttta aaatattttat ttattttttt attaagttc atattccata	240
182 ttattcaag atgttttacc gtaataatta ttataaaaaa tatgttct	289
185 <210> SEQ ID NO: 10	
186 <211> LENGTH: 7008	
187 <212> TYPE: DNA	
188 <213> ORGANISM: Artificial Sequence	
190 <220> FEATURE:	
191 <223> OTHER INFORMATION: Description of Artificial Sequence: Expression Vector pCMRI	
193 <400> SEQUENCE: 10	
194 gacggatcgg gagatctccc gatcccctat ggtgcactct cagtacaatc tgctctgatg	60
196 ccgcatagtt aagccagtat ctgcctccctg cttgtgtgtt ggaggtcgct gagtagtgcg	120
198 cgagcaaaat ttaagctaca acaaggcaag gcttgcaccga caattgcatt aagaatctgc	180
200 tttagggtagt gcgccccccctg ctgcctccctg atgtacgggc cagatataacg cgttgacatt	240
202 gattatttgcac tagttattaa tagtaatcaa ttacgggttc attagttcat agccatata	300
204 tggaggcccg cgttacataa cttacggtaa atggcccgcc tggctgaccg cccaaacgacc	360
206 cccgccccatt gacgtcaata atgacgtatg ttcccatagt aacgccaata gggactttcc	420
208 attgacgtca atgggtggag tatttacggt aaactgccc cttggcagta catcaagtgt	480
210 atccatatgccc aagtacgccc cctattgacg tcaatgacgg taaatggccc gcctggcatt	540
212 atgcccagta catgaccctt tgggactttc ctacttggca gtacatctac gtattagtca	600
214 tcgctattac catggtgatg cggttttggc agtacatcaa tgggcgtgga tagcggtttg	660
216 actcacgggg atttccaagt ctccacccca ttgacgtcaa tgggagtttgc tttggcacc	720
218 aaaatcaacg ggacttcca aatgtcgta acaactccgc cccattgacg caaatggcgc	780
220 gttaggcgtgt acgggtggag gtctatataa gcagagctct ctggctact aagcttccgg	840
222 cggcccgagg taccatggga tccgaagacg ccaaaaacat aaagaaaggc cggccgccc	900
224 tctatcctct agaggatgga accgctggag agcaactgca taaggctatg aagagatacg	960
226 ccctggttcc tggaaacaatt gctttacag atgcacatcgat cgaggtgaac atcacgtacg	1020

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/543,033A

DATE: 11/13/2006

TIME: 11:01:47

Input Set : F:\Substitute seq listing 10589-012-999.txt
Output Set: N:\CRF4\11132006\J543033A.raw

RAW SEQUENCE LISTING DATE: 11/13/2006
 PATENT APPLICATION: US/10/543,033A TIME: 11:01:47

Input Set : F:\Substitute seq listing 10589-012-999.txt
 Output Set: N:\CRF4\11132006\J543033A.raw

326	actacatggc	gtgattcat	atgcgcgatt	gctgatcccc	atgtgtatca	ctggcaaact	4020
328	gtgatggacg	acaccgtcg	tgcgtccgtc	gcgcaggctc	tcgatgagct	gatgctttgg	4080
330	gccgaggact	gccccgaagt	ccggcaccc	gtgcacgcgg	atttcggctc	caacaatgtc	4140
332	ctgacggaca	atggccgtat	aacagcggtc	attgactgga	gcgaggcgat	gttcggggat	4200
334	tcccaatacg	aggtcgccaa	catcttcttc	tggaggccgt	ggttggctt	tatggagcag	4260
336	cagacgcgct	acttcgagcg	gaggcatccg	gagcttgcag	gatgcgcgcg	gtccggggcg	4320
338	tatatgtcc	gcattggct	tgaccaactc	tatcagagct	tggttgacgg	caatttcgat	4380
340	gatgcagctt	gggcgcagg	tcgatgcgac	gcaatcgtcc	gatccggagc	cgggactgtc	4440
342	gggcgtacac	aaatcgcccg	cagaagcgcg	gccgtctgga	ccgatggctg	tgtagaagta	4500
344	ctcgccgata	gtggaaaccg	acgccccagc	actcgccga	gggcaaagga	atagcacgtg	4560
346	ctacgagatt	tcgatccac	cgccgccttc	tatgaaaggt	tgggcttcgg	aatcgtttc	4620
348	cgggacgccc	gctggatgt	cctccagcgc	ggggatctca	tgctggagtt	cttcgcccac	4680
350	cccaacttgc	ttattgcagc	ttataatgg	tacaataaaa	gcaatagcat	cacaatttc	4740
352	acaaataaaag	cattttttc	actgcattct	agttgtgg	tgtccaaact	catcaatgt	4800
354	tcttatcatg	tctgtatacc	gtcgacctct	agctagagct	tggcgtaatc	atggtcatag	4860
356	ctgtttcctg	tgtgaaattt	ttatccgctc	acaattccac	acaacatacg	agccggaagc	4920
358	ataaaagtgt	aaggctgggg	tgcctaata	gtgagctaac	tcacattaat	tgcgttgcgc	4980
360	tcactgccc	cttccagtc	gggaaacctg	tcgtgcgc	tgcattaatg	aatcgccaa	5040
362	cgcgcggg	gaggcggtt	gcgtattgg	cgcttccg	cttcctcgct	cactgactcg	5100
364	ctgcgc	tcgttcgg	gcggcgagcg	gtatcagctc	actcaaaggc	gttaatacgg	5160
366	tatccacag	aatcagggg	taacgcagga	aagaacatgt	gagcaaaagg	ccagcaaaag	5220
368	gccaggaacc	gtaaaaaggc	cgcggtcgt	gcgttttcc	ataggctccg	ccccctgac	5280
370	gagcatcaca	aaaatcgac	ctcaagtcag	aggtggcgaa	acccgacagg	actataaaga	5340
372	taccaggcg	ttccccctgg	aagctccctc	gtgcgtctc	ctgttccgac	cctgcccgtt	5400
374	accggatacc	tgtccgcctt	tctcccttc	ggaagcgtgg	cgcttctca	tagtcacgc	5460
376	tgttaggtatc	tcagtcgt	gttagtcgtt	cgcttcaagc	tgggtgtgt	gcacgaaccc	5520
378	cccggttc	ccgaccgctg	cgcccttatcc	gttaactatc	gtcttgagtc	caacccggta	5580
380	agacacgact	tatcgccact	ggcagcagcc	actggtaaca	ggatttagcag	agcgaggtat	5640
382	gtaggcggt	ctacagagtt	tttgaagtgg	tggcttaact	acggctacac	tagaagaaca	5700
384	gtatggta	tctgcgtct	gctgaagcca	gttacctcg	aaaaaaggt	tggtagctct	5760
386	tgtatccggca	aacaaaccac	cgctggtagc	ggtttttt	tttgcagca	gcagattacg	5820
388	cgcagaaaaaa	aaggatctca	agaagatctt	ttgatcttt	ctacgggtc	tgacgctcag	5880
390	tggAACGAA	actcacgtt	agggatttt	gtcatgagat	tatcaaaaag	gatcttcacc	5940
392	tagatcctt	taaataaaa	atgaagttt	aaatcaatct	aaagtatata	tgagtaaact	6000
394	tggctcgaca	gttaccaatg	cttaatcagt	gaggcaccta	tctcagcgat	ctgtctattt	6060
396	cgttcatcca	tagttgcct	actccccgtc	gtgtagataa	ctacgatacg	ggagggctta	6120
398	ccatctggcc	ccagtgctc	aatgataccg	cgagacccac	gctcacccgc	tccagattta	6180
400	tcagcaataa	accagccagc	cggaaggggc	gagcgcagaa	gtggctctc	aactttatcc	6240
402	gcctccatcc	agtctattaa	ttgttgcgg	gaagctagag	taagtagttc	gccagttat	6300
404	agtttgcgc	acgttgcgt	cattgcata	ggcatcggt	tgtcacgc	gtcggttgg	6360
406	atggcttcat	tcagtcgg	ttcccaacga	tcaaggcgag	ttacatgatc	ccccatgtt	6420
408	tgcaaaaaaag	cggtagctc	ttcgggtcct	ccgatcggt	tcagaagtaa	gttggccgca	6480
410	gtgttatcac	tcatgtttat	ggcagcactg	cataattctc	ttactgtcat	gccatccgta	6540
412	agatgtttt	ctgtgactgg	tgagtagtca	accaagtcat	tctgagaata	gtgtatgcgg	6600
414	cgcacggagt	gctctgccc	ggcgtcaata	cgggataata	ccgcgcacaca	tagcagaact	6660
416	ttaaaaagtgc	tcatcattgg	aaaacgttct	tcggggcgaa	aactctcaag	gatcttaccg	6720
418	ctgttgagat	ccagttcgat	gtacccact	cgtgcaccca	actgatctc	agcatcttt	6780
420	acttcacca	gcgttctgg	gtgagcaaaa	acagaaggc	aaaatgcgc	aaaaaaggga	6840
422	ataaggcgca	cacggaaatg	ttgatata	atacttcc	tttttcaata	ttattgaagc	6900

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 11/13/2006
PATENT APPLICATION: US/10/543,033A TIME: 11:01:48

Input Set : F:\Substitute seq listing 10589-012-999.txt
Output Set: N:\CRF4\11132006\J543033A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 3,7,8,11
Seq#:2; N Pos. 3,4,7,8,11,12
Seq#:13; N Pos. 1,15
Seq#:33; N Pos. 409,444
Seq#:40; N Pos. 535,734

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:2; Line(s) 55

VERIFICATION SUMMARY

DATE: 11/13/2006

PATENT APPLICATION: US/10/543,033A

TIME: 11:01:48

Input Set : F:\Substitute seq listing 10589-012-999.txt
Output Set: N:\CRF4\11132006\J543033A.raw

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:46 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:70 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
L:472 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0
L:1830 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:360
M:341 Repeated in SeqNo=33
L:2041 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:480
M:341 Repeated in SeqNo=40